Figure 1

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Figure 2A

6

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## Figure 2C

8

### 4/55

## Figure 3A

## Figure 3B

## 5/55

# Figure 3C

## 6/55

# Figure 3D

#### 7/55

#### Figure 4A

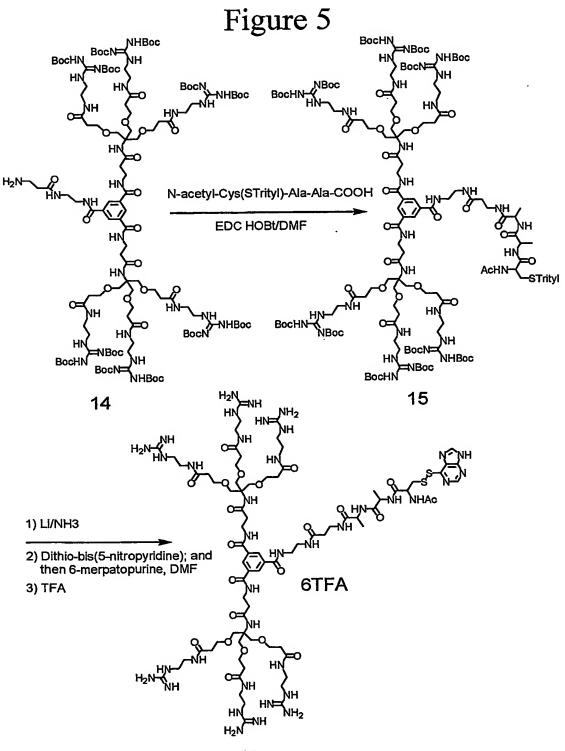
$$H_{2}N \rightarrow H_{2}^{+}$$
 $H_{3}N \rightarrow H_{2}^{+}$ 
 $H_{3}N \rightarrow H_{2}^{+}$ 
 $H_{4}N \rightarrow H_{2}^{+}$ 
 $H_{2}N \rightarrow H_{2}^{+}$ 

#### Tat<sub>49-57</sub> (RKKRRPPRR)

#### Figure 4B

R9 (9-mer of L-Arg))

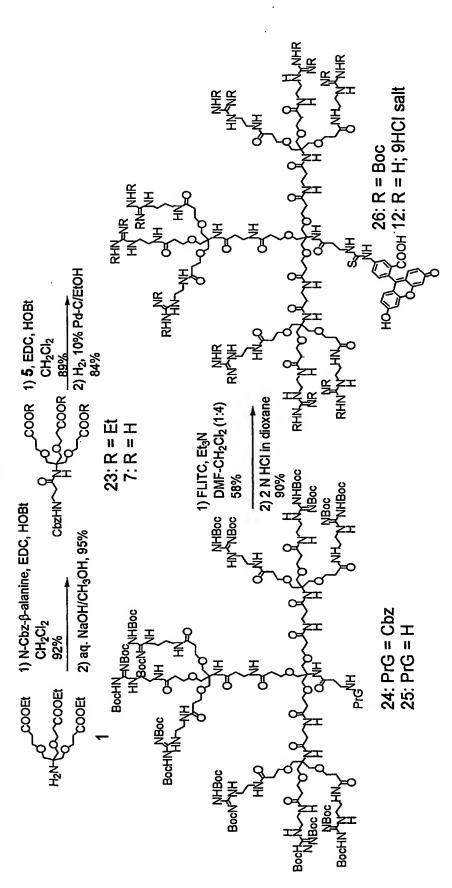
#### 8/55

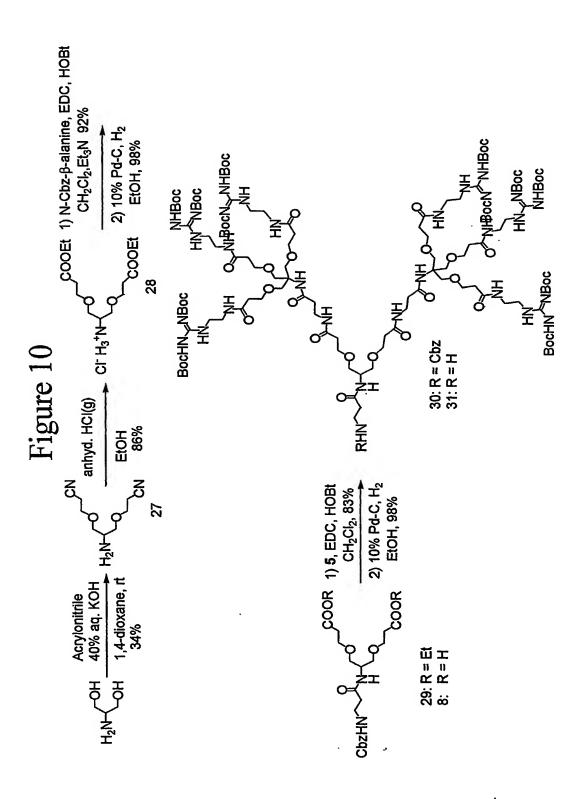


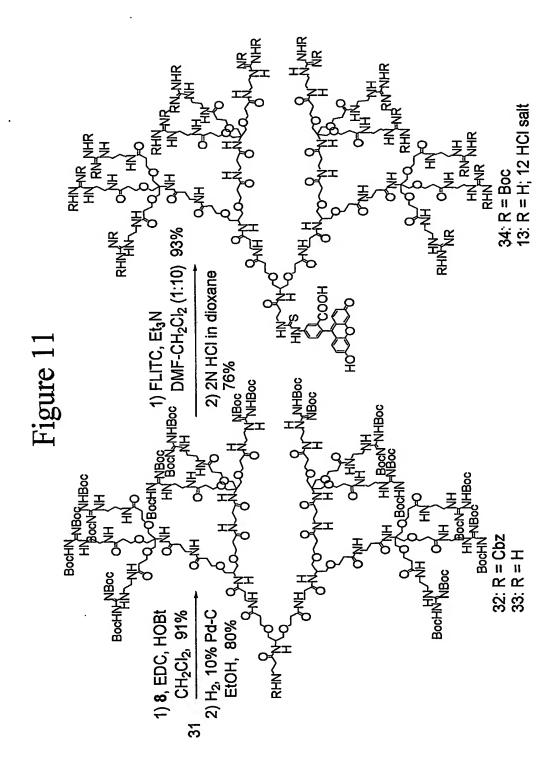
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## Figure 8

Figure 9







37

35: R = Me 36: R = H

Figure 12

33

38

40: R = Boc 41: R - H, TFA salt

Figure 13A

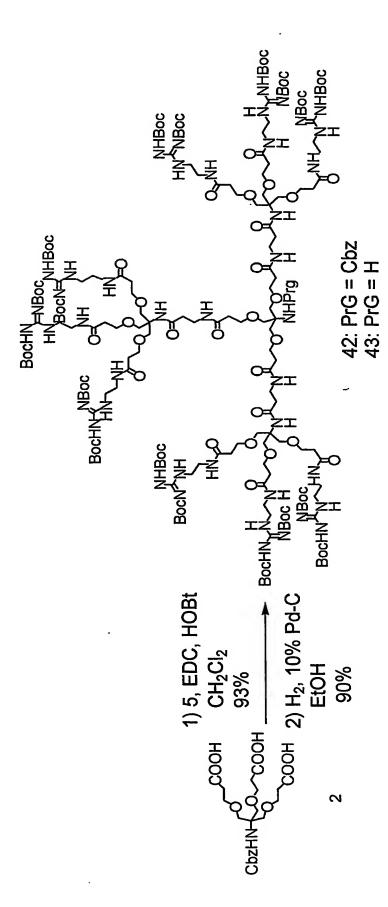
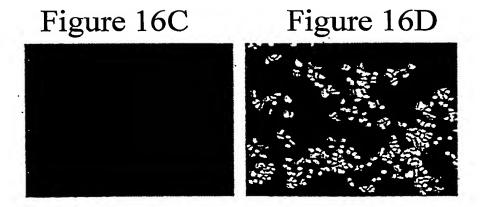


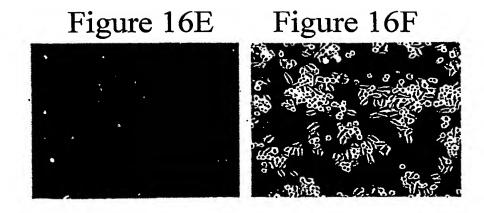
Figure 13B

### 19/55 Figure 15

20/55

Figure 16A Figure 16B





21/55 Figure 16G Figure 16H Figure 16I Figure 16J Figure 16K Figure 16L

22/55

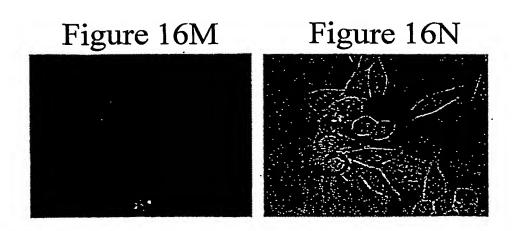
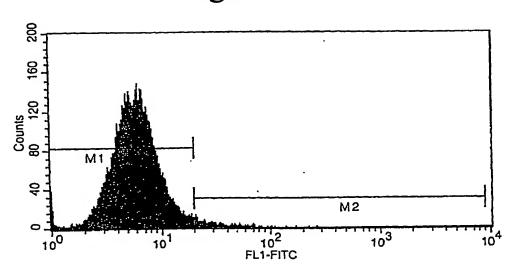


Figure 17A



23/55 Figure 17B

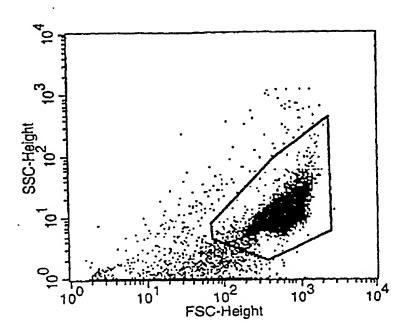
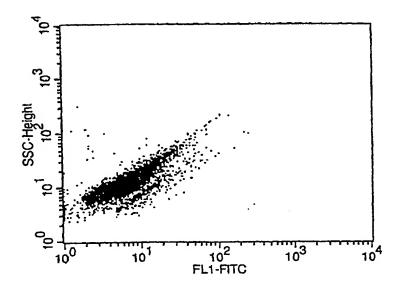


Figure 17C



24/55 Figure 18A

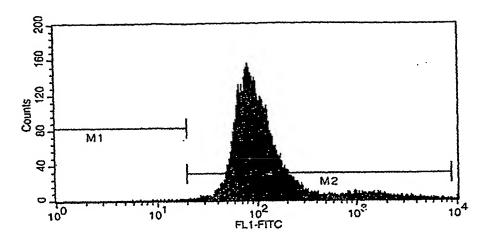
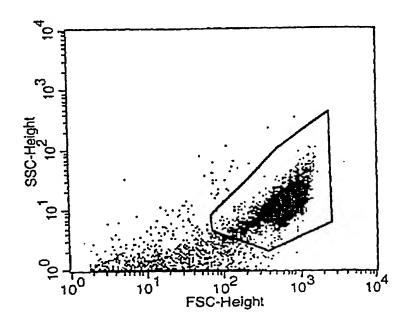


Figure 18B



25/55 Figure 18C

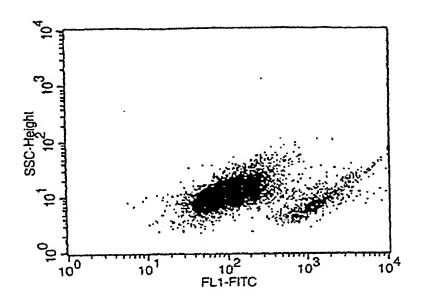
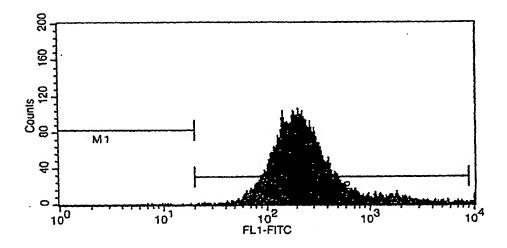


Figure 19A



26/55 Figure 19B

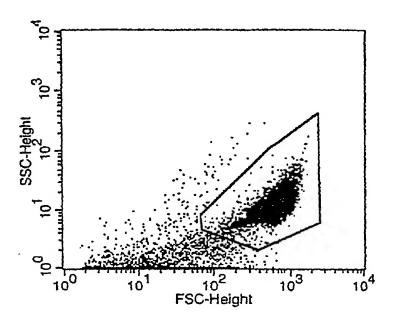
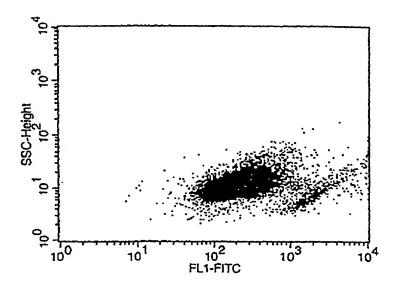


Figure 19C



27/55 Figure 20

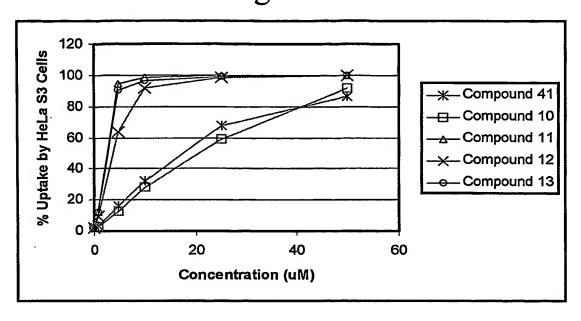
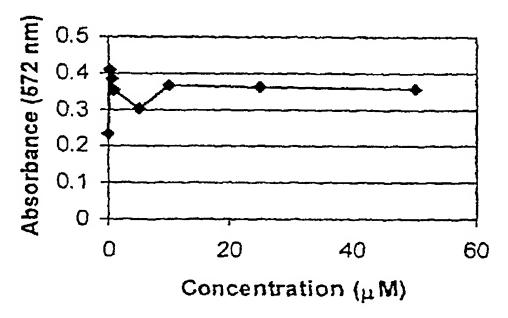


Figure 21



28/55 Figure 22A

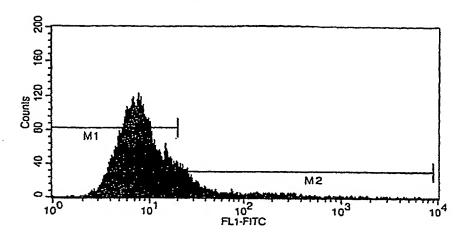
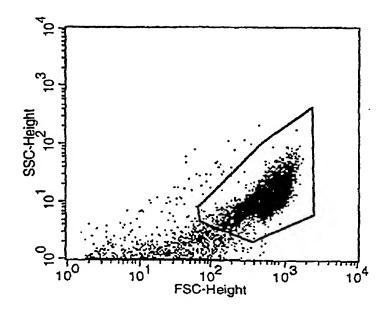


Figure 22B



29/55 Figure 22C

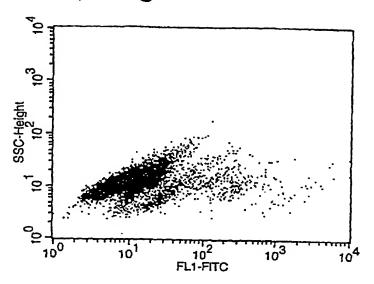
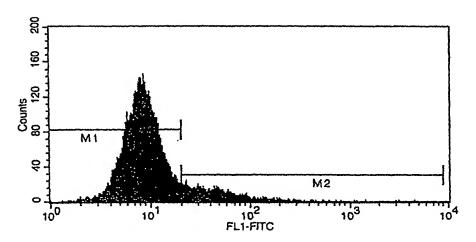


Figure 23A



30/55 Figure 23B

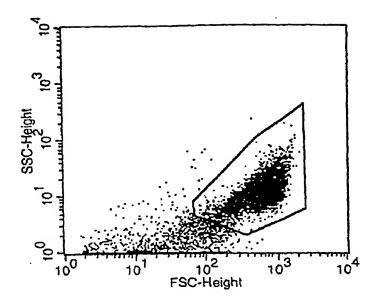
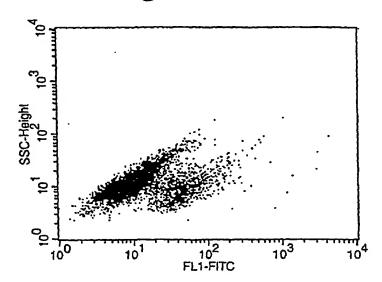


Figure 23C



31/55 Figure 24A

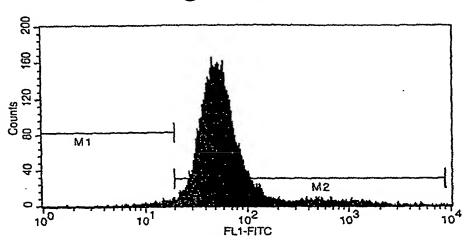
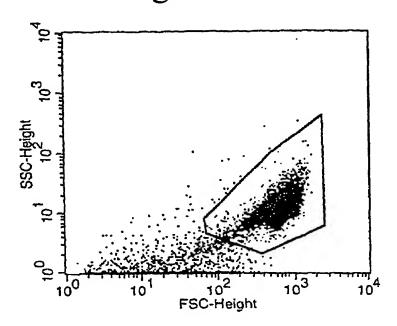


Figure 24B



32/55 Figure 24C

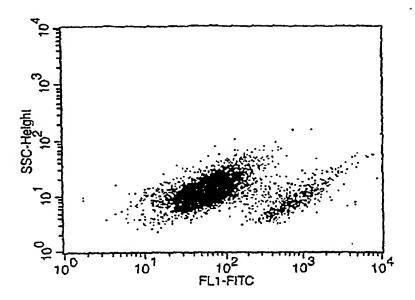
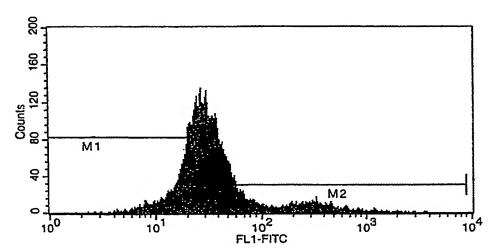


Figure 25A



33/55 Figure 25B

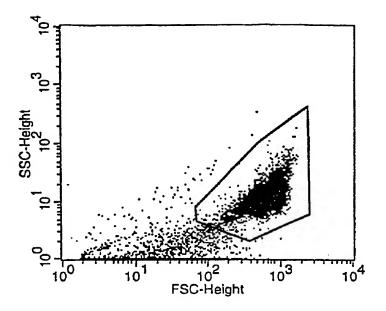
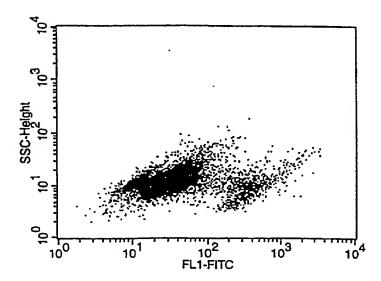


Figure 25C



34/55 Figure 26A

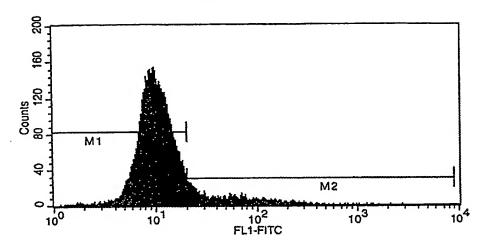
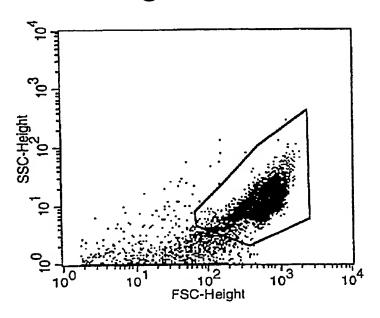
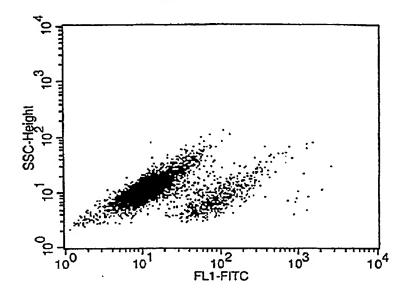


Figure 26B



35/55 Figure 26C



# 36/55 Figure 27A

# 37/55 Figure 27B

# 39/55 Figure 28A

40/55 Figure 28B

41/55 Figure 28C

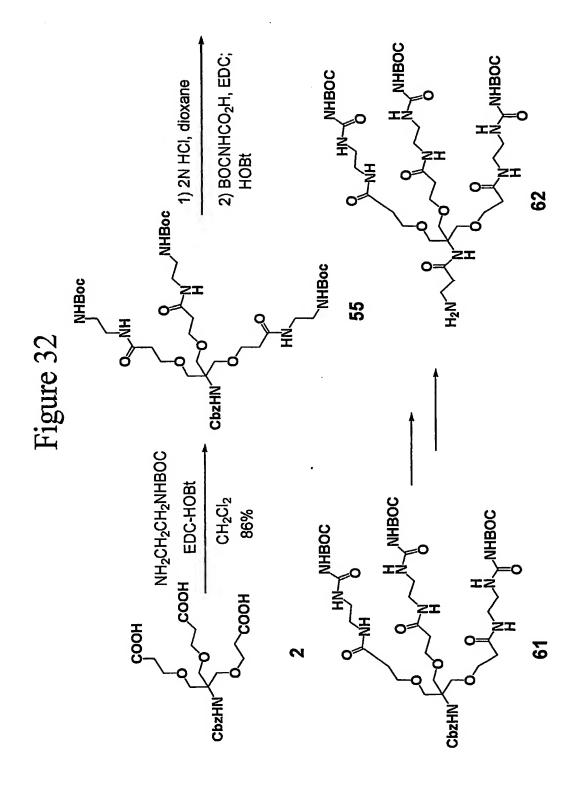
Figure 29

# 43/55 Figure 30

58

59

## 44/55 Figure 31

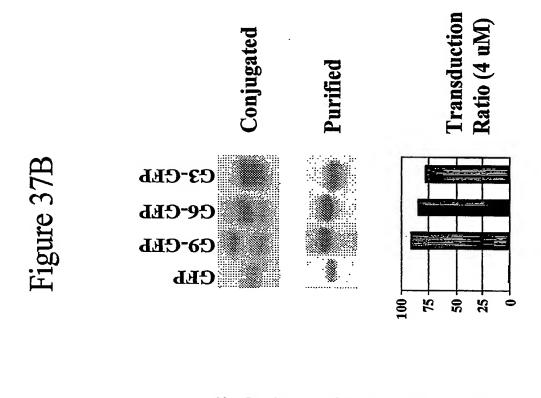


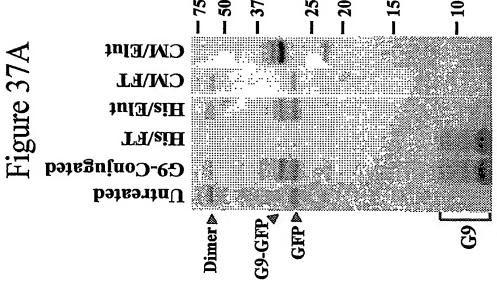
## 46/55 Figure 33

62 **ЙНВОС ЙНВОС** NHBOC NHBOC COBHN NHBOC NHCbz

47/55 Figure 34

68:  $R = H \leftarrow 2N HCI$  67: R = Boc





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Figure 38A

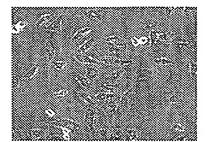


Figure 38B

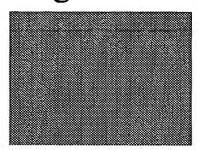


Figure 38C

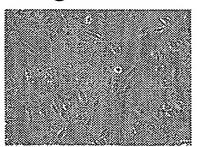
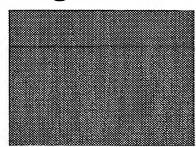


Figure 38D



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Figure 38E

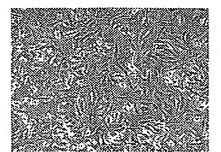


Figure 38F

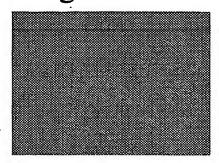


Figure 38G

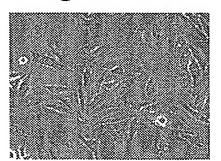
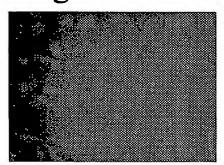


Figure 38H



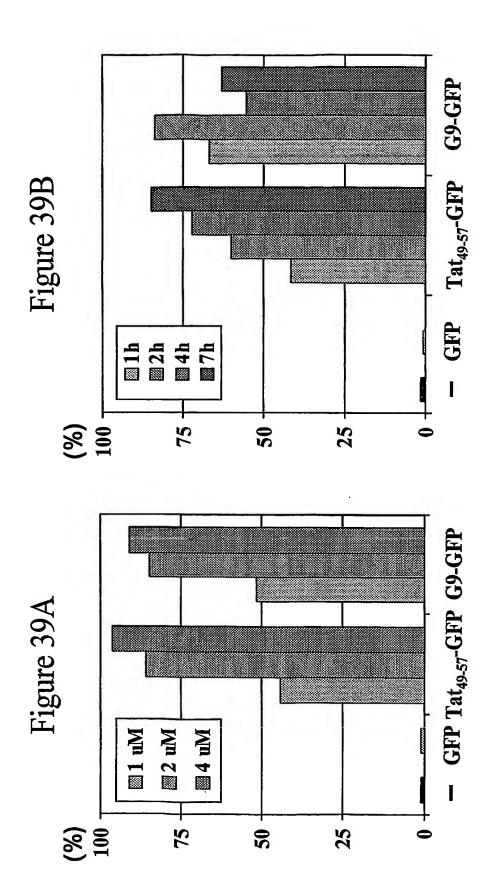
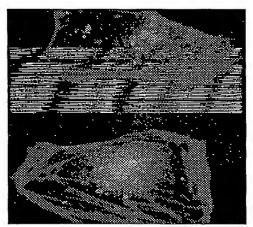


Figure 40A

Figure 40B

Figure 40C



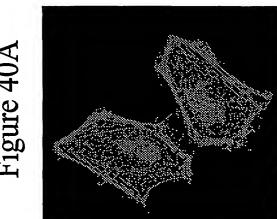
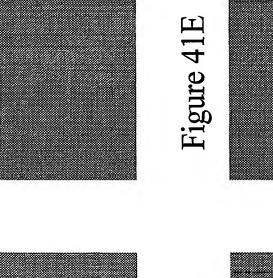


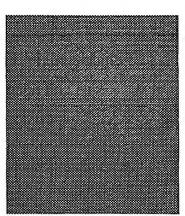
Figure 41C

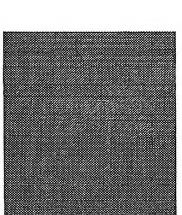
Figure 41B

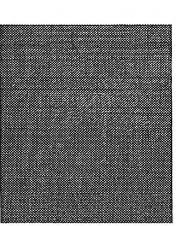
Figure 41A

Figure 41D

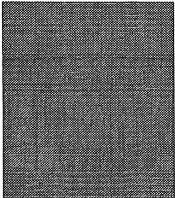


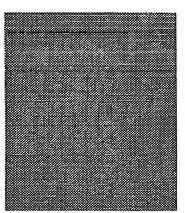












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